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(raid or striping) (IDE or ATA)

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PROVANTAGE.COM : IDE Controllers - RAID by SIIG Inc.

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RAID 0 (striping) RAID 1 (mirroring) and RAID 0+1 (mirroring +striping); ...www.provantage.com/PR_64380.HTM - 22k - [Cached](#) - [Similar pages](#)**High Performance IDE RAID**RAID 5, up to 4TB per enclosure
Market leading manufacture

www.fibrenetix.com

Interest:

Kontrollerkort - IDE - Promise - Westium Data AB.

... Ultra100 frigör ditt moderkorts IDE-portar för att ansluta fler IDE-enheter. ...

RAID**0 striping, RAID 1 spegling och RAID 10 striping+spegling. ...**www.westium.com/lagring/idekontroller/promise.htm - 18k - [Cached](#) - [Similar](#)[pages](#)**RAIDZONE Ultra ATA RAID**From 400GB to 6TB of hot swap RAID
on Linux & Win2K. Thousands in use.

www.raidzone.com

Interest:

HPT370 RAID ATA 100 FAQ Sheet... hard drives) UDMA1/UDMA2 - ATA-33 devices (standard UDMA33 hard
drives and most other

modern IDE devices) PIO ... Q: What does the RAID 0 "Striping" feature do?

...

www.highpoint-tech.com/370faq.htm - 16k - [Cached](#) - [Similar pages](#)**RAID for every Budget**High Performance Fibre, SCSI, IDE
240gb up to 16TB storage any OS

www.allmediait.com

Interest:

Gigabyte support AMD Athlon XP CPU BIOS list

... RAID mode. RAID 0 - Striping. ... RAID 1- Mirroring. ... ATA 133 Mode.

ATA 133 mode

provides two IDE connectors which being able to link to four more IDE device.

...

www.gigabyte.com.tw/home/raid_ata133.htm - 8k - Feb 7, 2003 - [Cached](#) -[Similar pages](#)**Disk Based Raid**Server Attached Storage
ATA, SCSI & Fibre Solutions!

www.sunstarco.com

Interest:

Low cost IDE based RAIDUp-to 3.2 TB, 125MB/sec throughput,
7 different models to choose from

www.excelmeridian.com

Interest:

Overclockers Australia - RAID-0 Shootout with ATA-100 and ATA- in the not so far future the current IDE standard (parallel ATA ... This is the
cheapest

way to run RAID 0 and we therefore included striping with Dynamic Disk ...

www.overclockers.com.au/techstuff/a_raid0_ata133/ - 31k - [Cached](#) - [Similar](#)[pages](#)**High Performance RAID**Advanced Media Services SCSI, Fibre
and UltraATA RAID Solutions

www.amsstorage.com

Interest:

[PDF]Macintosh ATA Hardware RAID ControllerFile Format: PDF/Adobe Acrobat - [View as HTML](#)

... OS X v10.0 through 10.2.2 Allows Mac OS to boot from attached drives

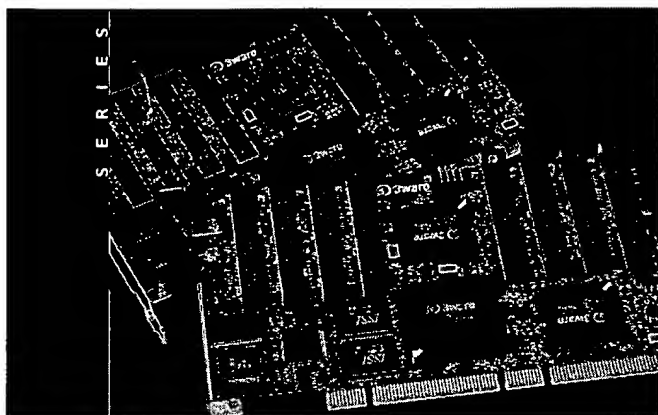
True hardware

RAID level 0 (striping) supports up to two volumes (two ATA/IDE hard drives**2.8TB 3U RAID Rackmount**Dual U160, Environmental Controller
14-Bay Hot-Swap, Triple 300W P/S

www.dynamicnetworkfactory.com

Interest:

Affordable ATA NAS Server



Escalade™ 7500 Series ATA RAID Controller

ESCALADE PRODUCT FEATURES

- Supports up to 12 Ultra ATA/133 drives with a single PCI card, enabling more than a terabyte of disk storage
- StorSwitch™ non-blocking architecture for reliable, scalable, and high-performance hardware RAID
- On-card processor and firmware O/S provides intelligent drive management and all RAID functions
- RAID 0, 1, 10, 5, and JBOD support
- High data throughput, delivering 180MB/sec reads and 127MB/sec writes
- 64-bit/33MHz bus master, PCI 2.2 compliant
- BIOS setup utility and PnP, BBS compliant bootable BIOS
- Hot-swap and hot-spare features for data availability
- Windows® and Linux® operating system support

The Escalade Series of RAID controllers bring SCSI reliability and performance features to ATA or Serial ATA disk drives. Only 3ware uses a switched architecture to eliminate the performance bottleneck of traditional ATA and SCSI controller designs. The result is a RAID controller that delivers industry-leading performance, data availability and fault isolation. 3ware—the leader in powerful, cost-effective, ATA storage solutions.

Reliable RAID for PC Servers and Workstations

Driven by desktop PC volumes, ATA disk drives represent a tremendous value with higher capacity, reliability and performance, than ever before. By providing the features and performance previously available only in SCSI and other shared-bus RAID systems, the 7500 series enables the use of these cost-effective ATA drives. With StorSwitch architecture, Escalade cards offer improved reliability compared with traditional RAID implementations. Escalade products meet or exceed the requirements for PC server storage in applications such as email servers, workgroup servers and SQL database servers.

Enabling New Storage Applications

Escalade RAID controllers enable new storage applications. By attaching more than a terabyte in a single PCI slot, new applications are made possible for PC servers. Video streaming, archival near-line storage, web farms, large email servers, and other high-density storage applications are served. A new class of disk storage is created.

Escalade 7500 Series Hardware

3ware's StorSwitch architecture with on-board processor makes the difference. Similar to network packet-switching hardware, StorSwitch architecture delivers reliability, scalability, and high performance. A dedicated, port per disk drive provides both drive and cable fault isolation for greater system reliability. The non-blocking switch architecture provides performance scalability.

StorSwitch architecture incorporates RAID 5 parity computation in hardware for higher performance than software implementations. The on-board processor handles all disk commands, and directs data flow through the switch for reliable RAID operation, independent of the host CPU and O/S.

Escalade 7500 Series Firmware

Escalade 7500 series firmware O/S provides intelligent disk management, including RAID strategy, rebuilding, verification and array creation and deletion. Fault detection,

cable error detection and retry, command read-back, and dynamic sector repair features contribute to data availability and robustness. SCSI-like command queuing and seek algorithms provide high-end RAID controller performance.

Self Monitoring Analysis and Reporting Technology (SMART) information is collected from the disk drives and made available locally and remotely through 3ware's Disk Manager (3DM™) utility, making the storage easier to manage and more reliable.

3ware's Escalade 7500 models, use a larger packet buffer to cache both random and sequential write operations for much faster RAID 5 writing, making RAID 5 appropriate for demanding streaming applications such as video editing.

Escalade 7500 Series Software

Escalade 7500 software consists of drivers and disk management middleware. By adhering to a SCSI device driver model, 3ware insures compatibility with major operating systems. This means that file systems and applications work transparently with this familiar disk interface.

The Escalade PCI card includes a built-in BIOS utility for creating, deleting, verifying and rebuilding arrays, making installation and set-up easy.

3DM, 3ware's web browser-based disk management utility, allows local and remote management and monitoring of arrays and their disks. 3DM has a simple native GUI, as well as a browser interface. 3DM also provides email notification of disk array events and other error conditions.

Escalade Sets a New Standard for RAID

For both traditional RAID applications and new, high-density storage environments, the Escalade 7500 series delivers. By enabling reliable, cost-effective, high-performance storage that is easy to integrate and manage, Escalade 7500 ATA RAID controllers set a new standard in storage.

Escalade™ 7500 Series

Escalade Features

- StorSwitch™ point-to-point, non-blocking architecture
- On-board processor provides true hardware based RAID and intelligent drive management functions
- SCSI performance feature set
- Remote browser 3ware Disk Manager (3DM) utility with password security for network management of storage arrays
- SMTP support for email / pager notification
- Easy-to-configure arrays from BIOS
- Bootable BIOS support for greater fault tolerance
- Multiple logical volumes and RAID levels can exist on one card
- Up to four controllers in a single system
- Hot-swap and hot-spare support for data availability
- Dynamic sector repair for robust data protection
- S.M.A.R.T. disk drive monitoring for reliability

Escalade 7500 Series Specifications

- PCI 2.2 compliant 64-bit/33MHz bus master
- Auto-sensing ATA/133/100/66/33 disk drive interface
- BIOS PnP (Plug and Play), and BBS (BIOS boot services) compliant

OS Support

- Microsoft® Windows® 98/ME/NT4.0/2000/XP
 - Red Hat Linux® 7.1, 7.2, 7.3
 - SuSE Linux 7.2, 7.3, 8.0
 - Linux driver available through open source kernel 2.2.15 and later
- For complete OS listing go to www.3ware.com/support

Physical and Environmental Specifications

- Calculated MTBF @ 25°C
 - Over 1.27 million hours for 7500-4LP
 - Over 0.94 million hours for 7500-8
 - Over 0.90 million hours for 7500-12
- Operating Temperature 0°C to 50°C
- Operating Humidity 10% to 90% non-condensing
- Non-Operating Temperature -55°C to 85°C
- Non-Operating Humidity 5% to 95% non-condensing
- Power Requirements 5W max on +5V, 0.25W max on -12V
- Dimensions

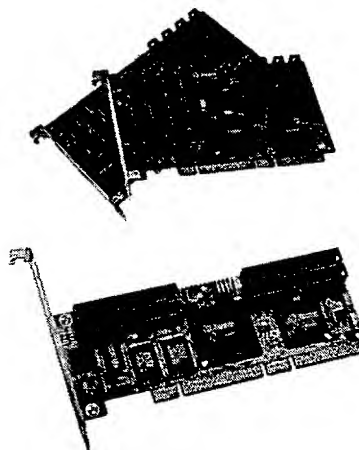
7500-4LP	6.6" L x 2.3" H
7500-8	6.875" L x 3.875" H
7500-12	12.25" L x 3.875" H

Compatibility

- For latest motherboard and HDD compatibility, go to: www.3ware.com/products/compatibility

Service and Support

- 3-year warranty on all Escalade products
- Support via the web at www.3ware.com/support

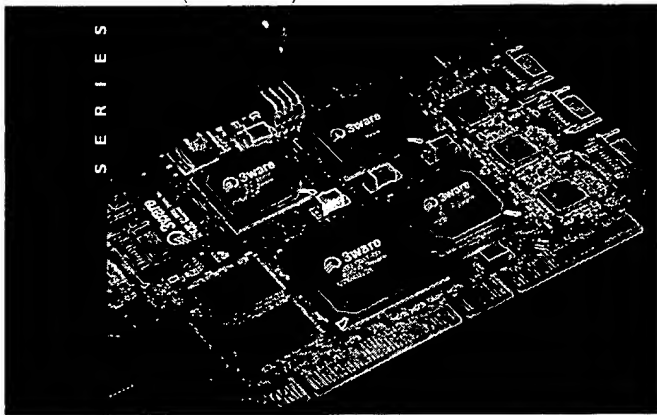


Escalade 7500 Series Selection Guide

Model	7500-4LP	7500-8	7500-12
ATA drives supported	4 ATA drives	8 ATA drives	12 ATA drives
RAID levels supported	0, 1, 10, 5, JBOD	0, 1, 10, 5, JBOD	0, 1, 10, 5, JBOD
Target Use	Medium capacity with high performance RAID 5	Highest capacity with high performance RAID 5	Maximum capacity with high performance RAID 5
Typical Platform/Applications	Departmental servers, email	Enterprise file servers, email, database applications, and video streaming	Web farms, email servers, near-line storage and external storage boxes, database applications



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www.3ware.com



Escalade™ 8500 Series

Serial ATA RAID Controller

ESCALADE PRODUCT FEATURES

- Supports up to 4, 8 or 12 Serial or Parallel¹ ATA drives on a single PCI card, enabling up to 2 terabytes of storage on a half-length card
- StorSwitch™ switched architecture delivers the full performance benefit of Serial ATA's point-to-point architecture up to 150MB/sec
- On-board processor provides true hardware-based RAID and intelligent drive management functions
- RAID 0, 1, 10, 5 and JBOD support
- 64-bit/33MHz PCI-compatible
- Bootable BIOS support for greater fault tolerance
- Hot-swap and hot-spare features for data availability
- Windows® and Linux® operating system support



3ware Escalade 8500 Serial ATA RAID controllers deliver full-featured hardware RAID for PC servers and workstations. With 3ware's point-to-point packet switching architecture, each disk drive has its own dedicated port, increasing throughput and enhancing reliability. 3ware delivers unmatched capacity, scalability and performance using inexpensive Serial ATA disk drives. The Escalade 8500 Serial ATA controllers set the standard for Serial ATA RAID.

Switched Architecture Delivers Highest Performance Serial ATA RAID

Traditional technologies such as parallel ATA and SCSI use a bus-based architecture wherein all the drives share a single bus, with a resulting compromise in performance. The Serial ATA architecture provides point-to-point communication, delivering full bandwidth to each connected drive when a switched architecture is employed. 3ware's non-blocking switched fabric design allows the controller to simultaneously access to all drives, delivering much higher performance than competitive Serial ATA solutions.

Simpler Configuration and Superior Air Flow

Serial ATA provides significant cabling benefits compared to parallel ATA. It eliminates the need for bulky parallel cables and allows for significantly improved airflow inside the RAID enclosures. Standard ATA drives can still take advantage of Serial ATA cabling. 3ware's Parallel-to-Serial Converter turns a parallel ATA drive into a serial interface. This allows users to immediately take advantage of Serial ATA's longer and thinner cable (1 meter), superior airflow and easier assembly while still using standard ATA hard disk drives.

The 8500 Series controllers are PCI short form-factor half-length cards—ideal for rackmounted system designs. The rear-exit cable connectors make cabling assembly and routing easy and straightforward.

Advanced RAID Software and Firmware

The Escalade 8500 series includes a complete suite of software and firmware for creating, deleting, verifying and rebuilding arrays, making installation and set-up easy. 3DM™, 3ware's web browser array management utility allows local and remote management and monitoring of arrays and their disks from any standard web browser. 3ware's advanced firmware delivers many of the features one expects with more expensive SCSI drives and controllers, but not typically available in ATA controllers or drives. These include command re-ordering, elevator seeks, dynamic sector repair, asynchronous error messaging and more.

Mature 4th Generation Switched Technology

The Escalade 8500 Series of ATA RAID controllers are the highest performing, highest capacity Serial ATA controllers available. 3ware's mature 4th generation RAID architecture and software has been deployed in thousands of mission critical servers so users can be confident that their data is protected. Utilizing StorSwitch™ non-blocking switched architecture, Escalade 8500 series are the only Serial ATA controllers that truly unleash the benefits of Serial ATA, delivering performance levels previously only seen with multi-channel SCSI RAID cards.

¹ Requires 3ware's Parallel-to-Serial Drive Converter or equivalent

Escalade™ 8500 Series

Escalade 8500 Series Features

- StorSwitch™ point-to-point, non-blocking architecture
- On-board processor provides true hardware based RAID and intelligent drive management functions
- SCSI device driver model to take advantage of the benefits of SCSI using inexpensive ATA drives
- Remote browser 3ware Disk Manager (3DM) utility with password security for network management of storage arrays
- SMTP support for email/pager notification
- Easy-to-configure arrays from BIOS or 3DM utility
- Staggered spin-up to minimize in-rush current at power up
- Bootable BIOS support for greater fault tolerance
- Multiple logical volumes and RAID levels can exist on one card for maximum configuration flexibility
- Multiple card support (up to 4) within a system for large storage requirements
- Hot-swap and hot-spare support for data availability
- Dynamic sector repair for robust data protection
- S.M.A.R.T. disk drive monitoring for reliability
- 2 levels of administrator access to 3DM for added security

Escalade 8500 Series Specifications:

- Half-length PCI Universal short form factor
- PCI 2.2 compliant 64-bit/33MHz bus master
- Auto-sensing Serial ATA, ATA 133/100 disk drive interface*
- BIOS PnP (plug and play), and BBS (BIOS boot services) compliant
- * No support for ATA 66/33

OS Support

- Windows 98/ME/NT4.0/2000/XP
 - Red Hat Linux 6.2, 7.0, 7.1, 7.2, 7.3
 - SuSE Linux 6.4, 7.2, 7.3, 8.0 SMP
 - Linux driver available through open source kernel 2.2.15 and later
- For complete OS listing, go to: www.3ware.com/support

Physical and Environmental Specifications

- Operating Temperature 0°C to 50°C
- Operating Humidity 10% to 90%
- Non-operating Temperature -55°C to 85°C
- Non-operating Humidity 10% to 90%
- Power Requirements 2.5W max on +5V
6.75 max on +3.3V
0.5 max on -12V, +12V not used
- Dimensions 6.875" length x 3.875" height

Compatibility

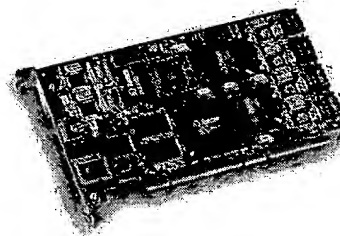
- For latest motherboard and hard drive compatibility listing go to: www.3ware.com/products/compatibility

Service and Support

- 3-year warranty on all Escalade products
- Support via the web at www.3ware.com/support or by phone at 877-AT-3ware, Monday through Friday, 8:00am to 5:00pm PST

Accessories

Model	Description
CBL-SATA-39	39" (1m) Serial ATA Cable
CBL-P-SATA	Parallel-to-Serial Drive Converter



Escalade 8500 Series Selection Guide

Model	8500-4	8500-8	8500-12
Drive Support	Up to 4 Serial ATA, or ATA/133/100	Up to 8 Serial ATA, or ATA/133/100	Up to 12 Serial ATA, or ATA/133/100
RAID Levels	0, 1, 10, 5, JBOD	0, 1, 10, 5, JBOD	0, 1, 10, 5, JBOD
Target Use	Desktops Video Editing Entry Servers	Workgroup Servers Video Servers Backup Servers Web Servers	Enterprise Servers External Storage Near-line Storage
Typical Applications	Video Editing Gaming Fault Tolerance	Web content, e-mail, Backup, Video-on-demand	Large-scale backup, NAS/SAN storage, Database, Video streaming

Note: Supports a combination of Serial and Parallel drives simultaneously using Parallel-to-Serial ATA Converter
No support for ATA/66/33 Drives



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Specifications subject to change without notice.



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ADAPTEC ATA RAID 2400A



Low cost data protection and increased performance
Four-channel ATA/100 RAID card with advanced features
such as OCE, and RAID 5

SRP (US) \$390.00 Part Number: 1891300



View product details in:

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Affordable, full-featured ATA/100 RAID card for data protection. Ideal for PC server users looking to take advantage of advanced RAID features on ATA hard drives. The Adaptec ATA RAID 2400A card is a microprocessor-based RAID solution for PC server environments employing ATA hard drives. The Adaptec ATA RAID 2400A supports up to 4 drives, with transfer rates up to 100 MByte/sec per channel over 4 channels - providing advanced RAID functionality at an affordable price. It is the ideal solution for those who want increased server capacity and performance. It offers state-of-the-art manageability features through Adaptec's Storage Manager Pro™ software.

[Full page photo](#)

Highlights

- 48-bit LBA supports drive sizes larger than 137GB
- i960RS based
- Up to 128 MB memory support
- 4-channel support up to 4 drives
- RAID 0, 1, 0/1, 5, JBOD
- Advanced GUI
- Online capacity expansion
- Hot swap, hot spare
- [Complete List of Supported Operating Systems](#)

For further product inquiries, please contact Adaptec Sales:
U.S. & Canada: 1.800.442.7274 | email (English only): Sales@Adaptec.com

PRODUCT DETAILS

- [Product Specifications](#)
- [ATA Family Datasheet \(PDF, 91KB\)](#)
- [DIMM Compatibility List](#)
- [ATA FAQs](#)
- [Product Family Comparison](#)

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ADAPTEC ATA RAID 1200A



Low cost data protection and increased performance
Two-channel RAID 0/1 card supports up to four ATA/100 drives

SRP (US) \$75.00 Part Number: 1891200

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Low cost ATA/100 RAID card for data protection and increased performance. Ideal for entry-level servers, workstations and rackmount servers using ATA hard drives. The Adaptec ATA RAID 1200A card delivers data protection and increased performance to individuals and companies operating ATA drives for workstations, entry-level servers, and rackmount server environments.

The Adaptec ATA RAID 1200A supports up to 4 drives with maximum transfer rate of 100 MByte/sec per channel over 2 channels. Its low-profile form factor makes it ideal for ISP environments - offering maximum space for other server components, and allowing for increased airflow. Its performance is just as remarkable in traditional pedestal server environments. Striping two or more drives provides significant disk performance increases. This is especially valuable when running data intensive applications such as video/audio streaming and post-production, image editing, and the most sophisticated gaming applications. A user-friendly management GUI also provides instant access to all your storage management needs.

[Full page photo](#)

Highlights

- ❑ 48-bit LBA supports drive sizes larger than 137GB
- ❑ Low-profile form factor
- ❑ 2-channel support up to 4 drives
- ❑ RAID 0, 1, 0/1, JBOD
- ❑ bootable array support
- ❑ Hot spare
- ❑ [Complete List of Supported Operating Systems](#)

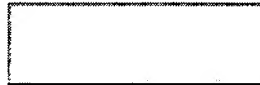
For further product inquiries, please contact Adaptec Sales:
U.S. & Canada: 1.800.442.7274 | email (English only): Sales@Adaptec.com

PRODUCT DETAILS

- [Product Specifications](#)
- [ATA Family Datasheet \(PDF, 91KB\)](#)
- [Colfax RAID Configurator](#)
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ATA RAID

	Adaptec ATA RAID 2400A	Adaptec ATA RAID 1200A
Product Description	Four-channel ATA/100 RAID card with advanced features such as OCE, and RAID 5	Two-channel RAID 0/1 card supports up to four ATA/100 drives
Customer Needs	Ideal for entry-level servers and workstations with up to four ATA/100 or ATA/66 disk drives	Ideal for ATA servers and workstations requiring basic mirroring/striping functionality
System Environment	Small business servers with focus on low-cost/performance	Small servers or workstations requiring improved I/O performance and reliability
Benefits	Ideal for entry-level servers requiring up to four ATA/100 or ATA/66 disk drives	Ideal for RAID workstation and sub entry-level servers requiring up to four ATA/100 or ATA/66 disk drives
Key Differentiators	Affordable, full featured	Supports bootable arrays
Data Transfer Rate	Up to 100 MB/sec per channel	Up to 100 MB/sec per channel
Device Support	Up to 4 ATA 66/100 disk drives; 48-bit LBA supports drive sizes larger than 137GB	Up to 4 ATA 66/100 disk drives; 48-bit LBA supports drive sizes larger than 137GB
External Connectors	N/A	N/A
Internal Connectors	Four 40-pin connectors	Two 40-pin connectors
Bus Type	32-bit PCI	32-bit PCI
System Requirements	Intel PC or equivalent Available PCI slot	Pentium 266 MHz Processor or higher system PCI 2.2 or previous version compliant An available, unobstructed PCI slot that supports Bus Mastering A minimum of one ATA drive CD-ROM or DVD-ROM drive Floppy Disk Drive 64 MB or more of system memory 5 MB of free hard disk space for the Adaptec ATA RAID Management Software
	FreeBSD, NetWare, Red Hat Linux, SCO Unix, SuSE Linux, Windows 95/98/ME, Windows NT 4.0/2000, Windows XP	Windows 98/ME, Windows NT 4.0/2000, Windows XP
Package Contains	Adaptec ATA RAID 2400A card CD including Storage Management Software Online Documentation Drivers Installation and User's Guide Four 40-pin, 80-wire ATA/100 cables	Adaptec ATA RAID 1200A card CD containing Adaptec RAID Management Software Suite Documentation Drivers Installation Manual Two 40-pin, 80-wire ATA/100 cables
Warranty	3 years	3 years
Other	Supports RAID 0, 1, 0/1, 5, JBOD 32 MB SDRAM Cache Memory (expandable to 128 MB)	Supports RAID 0, 1, 0/1, JBOD Not expandable
Link to Product Overview	Adaptec ATA RAID 2400A	Adaptec ATA RAID 1200A